



Features

- Small temperature error by means of reduced-volume measuring element
- Operating temperature up to 200 °C
- Process connection via diaphragm seal product group D5
- Case and pressure element assembly of stainless steel
- Instrument connection welded with diaphragm seal
- Accuracy class 1.0 per EN 837-1

Options

- Case with liquid filling and degree of protection IP 66
- Hygienic design
- Inspection certificate
 - material per DIN EN 10204
 - calibration certificate per DIN EN 10204

Application area

- Food industry
- Pharmaceutical industry
- Biotechnology

Application

The pressure gauge type series BH42.. has been especially constructed for the operation with diaphragm seals. A custom bourdon tube that is reduced in volume produces a very slight temperature error. Diaphragm seals with reduced membrane surface areas may also be used. A large selection of diaphragm seals – D5 product category – is available for a variety of applications.

Technical Data

Case

high quality case with bayonet ring DN 100, with blow-out device per EN 837-1.
Material: st. steel mat.-no. 1.4301 (304)

Degree of protection (EN60529)

IP 65 with and without case filling
IP 66 with case filling and blow-out device with internal pressure relief membrane

Pressure element assembly

bourdon tube and pressure connection
material st. steel mat.-no. 1.4571 (316Ti)

Case filling

liquid filling glycerine/water
Other liquid fillings upon request.

Process connection

via diaphragm seals, see product group D5.

Movement

stainless steel segment

Scale

pure aluminium, white with black inscription.
Option: with red marking or with fixed reference pointer.
Special scale upon request

Pointer

pure aluminium, black, standard.
Option: with micro adjustment for zero-point correction

Window

non splintering laminated glass

Case seal

sealing ring: Perbunan
filling plug: Desmopan

Blow-out device

material: Desmopan

Nominal ranges

per EN 837-1
-1...3 bar up to 0...400 bar
other measuring units can be supplied

Overload protection

standard: 1.3times
other overload protections see order details

Accuracy

class 1.0 per EN 837-1

Temperature ranges

operating temperature range (ambient)
without liquid filling: -20...+60 °C
with liquid filling: -20...+50 °C
without liquid filling: max. +200 °C
min. -40 °C
with liquid filling: max. +140 °C
min. -20 °C

The maximum values stated could be restricted due to:

- size of diaphragm
 - measuring range
 - diaphragm liquid filling
- Other temperature ranges upon request.

Temperature influence

a detailed calculation of accuracy can be submitted upon request.

Weights

- DN 100, without liquid filling:
approx. 0.7 kg + process connection (diaphragm seal)
- DN 100, with liquid filling
approx. 0.9 kg + process connection (diaphragm seal)

Additional devices

also available with limit value controller
see data sheet D3-027

Information on other models see order details or upon request

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